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DIALOG(R)File 350: Derwent WPIX

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## 013178508

WPI Acc No: 2000-350381/200030

Granulation and crystallization of thermoplastic polyester after partial polycondensation involves addition to liquid and forced crystallization at high temperature or by adding seeds

Patent Assignee: RIETER AUTOMATIK GMBH (RIET )

Inventor: MATTHAEI A

Number of Countries: 026 Number of Patents: 002

Patent Family:

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Abstract (Basic): WO 200023497 A1

NOVELTY - In the granulation and crystallization of thermoplastic (co)polyesters (I) after partial polycondensation to a precursor (II) and adding (II) to a liquid, crystallization is forced after adding (II) to the liquid, to accelerate crystallization, by keeping the liquid above 100 degrees C or producing crystallization seeds on the surface of the precursor.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the equipment used.

USE - The process is used for granulating and crystallizing polyesters, especially polytrimethyl terephthalate or polyethylene terephthalate (all claimed).

ADVANTAGE - An existing process, in which drops of liquid polyethylene terephthalate oligomer are cooled in a water bath or on a drum or conveyor belt gives amorphous pellets of weakly polycondensed

polyester, which require more energy and work for conversion to crystalline materials. Another process involves heating the amorphous granulate in a fluidized bed to avoid agglomeration. The present process avoids these drawbacks and is quicker. It can also operate at throughputs of several tonnes per hour.

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Derwent Class: A23

International Patent Class (Main): C08G-063/88

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